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THW 2676

Practitioner's Docket No. 117040.00055

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Isakovic et al.

Application No.: 10/083,626

Group No.: 2676

Filed: 02/26/2002

Examiner: Caschera

For: ARRANGEMENT AND METHOD FOR SPATIAL VISUALIZATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97

It is believed that this Supplemental Information Disclosure Statement is being filed after three months of the filing date of this national application or the date of entry of the national stage as set forth in Section 1.491 in an international application or after the mailing date of the first Office action on the merits, whichever event occurred last but before the mailing date of either a final action under § 1.113 or a notice of allowance under § 1.311 whichever occurs first. The \$180.00 submission of Information Disclosure fee is enclosed. Please charge any additional fees required by this paper to Deposit Account No. 15-0450.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR §1.56(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

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CERTIFICATION UNDER 37 C.F.R. § 1.8(a)

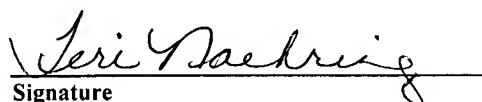
I hereby certify that, on the date shown below, this correspondence is being deposited with the United States Postal Service in an envelope with sufficient postage as first class mail addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-13450.

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Signature

Teri L. Nachring  
(type or print name of person certifying)

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13, at 25.

This Information Disclosure Statement is made to comply with the duty of candor imposed on all individuals associated with the filing or prosecution of this application, as defined by 37 CFR §1.56(c).

A list of the two (2) non-patent literature documents is enclosed on one sheet of Form PTO/SB/08B which is attached and made a part hereof. These documents were cited in an Office Action in German patent application 101 10 358.1-53. Copies of cited references are enclosed. An explanation of the relevance of these German references as provided by the German associate of this client follows:

Visualisierung wissenschaftlicher Daten

In the chapter "Paralleling", pages 4ff, this document describes how video streams are processed in a parallel manner in several workstations. Here, the image material received from a hard drive is scanned by a "processing element" (PE) and distributed to 191 further PEs. The 191 PEs conduct a MPEG-codification and store the result in a I/O-PE especially provided for this. In the I/O-PE, the images are connected and are stored as a final MPEG-stream on the hard drive.

Marco Zens: "Paralleles Rendering"

According to its title, this document describes "parallel rendering". According to this document, rendering means the automatic creation of single images or several images by means of a computer. According to section 1.1, page 2, first paragraph, this document describes the possibilities, problems and results of the use of heterogeneous networks determined for accelerating the photorealistic visualization of three-dimensional scenes, whereby the testing of the possibility and of the efficiency of the use of parallel algorithms in a heterogeneous LAN of widespread calculation architecture is an essential point.

In section 3.4 a distributed ray tracer is shown. Figure 3.2 shows a structure in which a server that is connected with one front end divides the calculation of one image into a number of partial calculations of image sections and instructs each of a certain number of clients to calculate one image section. As soon as the server receives all image sections from the clients, they are connected by the server and are sent to the front end as a complete image. The front end stores the image with the designation chosen by the user whereupon the calculation procedure is concluded.

An alternative parallel rendering procedure is described in this document, chapter 4, page 23. During this procedure, the clients also send the image data back

to the server after being instructed by the server to do so (see step 6). Only then the server is in a position to conduct a complete calculation of the image data and to send it to the front end.

This Information Disclosure Statement is based on information contained in the undersigned attorney file as of the date of this statement and is inclusive of the best information known to the undersigned at that date.

The Examiner is kindly requested to consider the Information Disclosure Statement in addition to any references identified by the Examiner as a result of his independent search and examination.

Respectfully submitted,

HAHN LOESER & PARKS LLP

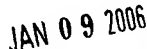


David J. Muzilla  
Registration 50,914

Date: 1-6-06

One GoJo Plaza  
Suite 300  
Akron, OH 44311-1076

Attorney Docket: 117040.00055



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*(Use as many sheets as necessary)*

**Complete if Known**

Application Number	10/083,626
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Filing Date	02/26/2002
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First Named Inventor	Karsten Isakovic
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Art Unit	2676
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Examiner Name	Cashera
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Attorney Docket Number	117040.00055
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Sheet

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of

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### NON PATENT LITERATURE DOCUMENTS

Examiner  
Initials\*Cite  
No<sup>1</sup>

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

 $T^2$ 

## A "Visualisierung wissenschaftlicher Daten"

B	MARCO ZENS, "Paralleles Rendering"
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Examiner  
Signature

Date  
Considered

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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